RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

| Application Serial Number: | 10/617,316 | |
|----------------------------|------------|--|
| Source: | • | |
| Date Processed by STIC: | | |

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IFWO

RAW SEQUENCE LISTING DATE: 03/01/2005
PATENT APPLICATION: US/10/617,316 TIME: 10:35:15

Input Set : N:\Crf4\Refhold\10_folder\J617316.raw

Output Set: N:\CRF4\02282005\J617316.raw

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1 <110> APPLICANT: Havukkala, Ilkka J
         Glenn, Matthew
 2
         Grigor, Murray R.
 3
         Molenaar, Adrian J.
 5 <120> TITLE OF INVENTION: Compositions Isolated From Bovine
         Mammary Gland and Methods For Their Use.
 7 <130> FILE REFERENCE: 11000.1046U1C1
 8 <140> CURRENT APPLICATION NUMBER: US/10/617,316
 9 <141> CURRENT FILING DATE: 2003-07-09
10 <150> PRIOR APPLICATION NUMBER: US 09/699,146
11 <151> PRIOR FILING DATE: 2000-10-27
12 <150> PRIOR APPLICATION NUMBER: US 60/162,701
13 <151> PRIOR FILING DATE: 1999-10-29
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20 <213> ORGANISM: Bovine
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44
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68
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                                                                                 180
80
                                                                                 240
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                                                                                 300
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         cctccagage atccgctcac aaggttactc cttttttaat gatcctgatg agaccaagge
                                                                                 480
84
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                                                                                 540
85
86
         ctgtcacagt catagtcgaa caagcctcca gagttctcat ctatgggaat ttgtgcgaga
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         tggctgttac ataattatga aactataccc ctgtctcaga ctgctgcagc ctgagttcta
                                                                                 180
96
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Output Set: N:\CRF4\02282005\J617316.raw

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| 99 | Š | ggtgcccacg tgacttgtca gcagctagct gcccccgagg caacacctcc caccctccct | 360 |
| 100 | | agcacccgga ggtcccctgg gctttgcact gctgctcctt ccctctgaaa ccctctccca | 420 |
| 101 | | cctcctgacg ttagcatgaa tgtgttcctc taggagaccc gctctgccca ccccatctag | 480 |
| 102 | | atgcagcagg agctttcgcc tgcctccatt ctctaatgcc tccttccttc gtaacactta | 540 |
| 103 | | caacaggggc gattcgtgtt tcacttgtat tttcctcacc ctgtagtcct cagcctctac | 600 |
| 104 | | ctgagcgagg accaagtctg ccttgtctcc agctttctgt ttccagctca gaacctggaa | 660 |
| 105 | | tctgacacac agttgggccc cagtgttgaa tacaaattct cctgaaacct actaattatc | 720 |
| 106 | | cccagaacag ccggcaccag ttgtctcctg ccacgaaggt gtccaattaa tagctgctca | 780 |
| 107 | | tttggtgtga cttgaggtct gaatgtggcc tctagatttc ttcctgcagc tgtcaatcac | 840 |
| 108 | | tctgttgcag atgctgattc cagttgcttg aaaacaagtg gcatcaaaag tcaagactgt | 900 |
| 109 | | cacagtcata gtcgaacaag cctccagagt tctcatctat gggaatttgt gcgagatctg | 960 |
| 110 | | cttctatctc ctgaggaaaa ctgcggcatt ctggaatggg aagataggga acaaggtatt | 1020 |
| 111 | | tttcgggtgg ttaaatcaga agccctggcg aagatgtggg gacaaaggaa gaaaaatgac | 1080 |
| 112 | | agaatgacgt acgaaaagct gagcaga | 1107 |
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| 117 | <213> | ORGANISM: Bovine | |
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| 120 | | cagagagacc tagccaggac tggctgtgta gacttgacca tcactaatct gcttgaggga | 120 |
| 121 | | gccgtagctt tcatgcctga agacatcact gaggggaccc aatcccttgc cacagcctcc | 180 |
| 122 | | actcccaagt tccccagctc tggcccggca acccctcagc ccacagccct aacatttgcc | 240 |
| 123 | | aagteeteet gggeeeggea ggagagteta eaggagegaa ageaggeget gtatgaatge | 300 |
| 124 | | gcgag | 305 |
| | <210> | SEQ ID NO: 7 | |
| | | LENGTH: 220 | |
| | | TYPE: DNA | |
| | • | ORGANISM: Bovine | |
| | | SEQUENCE: 7 | |
| 131 | 12002 | ctccttccct cagaggatgt cctccttcca gctcaacctc aacccgctca aggagcctct | 60 |
| 132 | | cggcttcatc aaagtcctcg agtggattgc ttctatcttt gcttttgcta cctgtggagg | 120 |
| 133 | | ttttaagggc aaaacagaaa ttcaagtgtc ttgtactacg ggtcctgaga ataaaacgat | 180 |
| 134 | | tacagetget tttggttate catteaggtt gaatgaagea | 220 |
| | <210× | SEQ ID NO: 8 | 220 |
| | | LENGTH: 565 | |
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| | | ORGANISM: Bovine | |
| | | SEQUENCE: 8 | • |
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| | | accaggcaac ccagaaagcc aggcgtggag actgatcctg cgggaggaaa gggttcatca | 60 |
| 142 | | tggcggatga tctaaaacga ttcctgtata aaaaattacc gagtgttgag gggctccatg | 120 |
| 143 | | ctattgttgt gtcagataga gatggagtgc ctgtcatcaa agtggccaat gataatgctc | 180 |
| 144 | | cagagcatgc tttgagacct ggtttcttat caacttttgc ccttgcaaca gaccaaggaa | 240 |
| 145 | | gcaaactcgg actttcaaaa aataaaagta tcatctgtta ctataatacc taccaggtgg | 300 |
| 146 | | ttcaattcaa tcgtttacct ttggtagtga gtttcatagc cagcagcaat gctaatacag | 360 |
| 147 | | gactaattgt cagcctggaa aaggaacttg ctccattatt tgaagaattg agacaagttg | 420 |
| 148 | | tggaagtttc ttaatctgga gttttcttca tcatatcaga cacaatatca atccagcaat | 480 |
| 149 | | ctttaggcca cagtgacact tgtatccatg tactcaagga cccccttttt ccactttact | 540 |

DATE: 03/01/2005 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/617,316 TIME: 10:35:15

Input Set : N:\Crf4\Refhold\10_folder\J617316.raw
Output Set: N:\CRF4\02282005\J617316.raw

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| | | SEQUENCE: 9 | | | |
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| 158 | | teegeeagea tgaceegett ga | | | 120 |
| 159 | | ctggagggtg cccgcagccg ct | | | 180 |
| 160 | | agcgagggca cgcggctgga ca | | | 240 |
| 161 | | cccaactcca cggaggtgtc ctg | | | 300 |
| 162 | | ctgggaccga tcgctgtagc tg | | | 360 |
| 163 | | ccgcacgtta actcgtaact cg | | | 420 |
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| 172 | | gtttacatct cgaatggaca ag | | | 120 |
| 173 | | tttataacag atttcttctg ggg | | | 180 |
| 174 | • | cttcaacaag atgtgaaaaa gag | | | 240 |
| 175 | | gacggaagag ggccaccagg aa | acccccc agaagaagaa | tgggtcgaat taatcatctg | 300 |
| 176 | .010. | cagggcccta atcct | | | 315 |
| | | SEQ ID NO: 11 | • | | |
| | | LENGTH: 333 TYPE: DNA | | | |
| | | ORGANISM: Bovine | | | |
| | | SEQUENCE: 11 | | • | |
| 183 | (400) | gaaagaccca gcactgggag gct | taaqqaaa aqaqqtqaqt | caaggacgtc ttcgtagtgg | 60 |
| 184 | | agctactgag attcgggagg cca | | | 120 |
| 185 | | tcagtcatgt tcggctacgc ggt | | | 180 |
| 186 | • | ggagttccca tgttgttgct gat | | | 240 |
| 187 | | attcgttatg atgctgtgaa gat | | | 300 |
| 188 | | aataaagtgt cattggaatc aga | | 3 3 3 | 333 |
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| 196 | | ctgtgctgtc cctgtatgcc tct | tggccgca ccaccggcat | cgtgatggac tccggtgacg | 120 |
| 197 | | gggtcaccca cacggtgccc ato | | | 180 |
| 198 | | tggacctggc tggccgggac ctg | | | 240 |
| 199 | | acagetteae caceaeggee gag | | | 300 |
| 200 | | acgtggccct ggacttcgag cag | | | 360 |
| 201 | | agagetaega getteetgae ggg | | | 420 |
| 202 | | ctgaggctct cttccagcct tcc | cttcctqq qcatqqaatc | ctgcggcatt cacqaaacta | 480 |

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204
                                                                                  600
205
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206
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207
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208
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209
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215 <213> ORGANISM: Bovine
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220
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237
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246 <211> LENGTH: 421
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248 <213> ORGANISM: Bovine
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251
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          caagcccaag atgtgcagct tcctggagtg gagggacctc aaagttgtct ataagagata
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253
                                                                                  240
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:76; N Pos. 177 Seq#:77; N Pos. 118

Seq#:150; Xaa Pos. 48,68,109

Seq#:198; Xaa Pos. 40
Seq#:207; Xaa Pos. 59
Seq#:208; Xaa Pos. 39
Seq#:255; Xaa Pos. 92

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Input Set : N:\Crf4\Refhold\10_folder\J617316.raw

Output Set: N:\CRF4\02282005\J617316.raw

L:1210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:120 L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:60 L:2461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:32 M:341 Repeated in SeqNo=150 L:3690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198 after pos.:32 L:3937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207 after pos.:48 L:3955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:32 L:5045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:80